



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
SOLID WASTE MANAGEMENT PROGRAM  
**SOLID WASTE MANAGEMENT DISTRICT ANNUAL REPORT**

1. SOLID WASTE MANAGEMENT DISTRICT  
Quad Lakes Solid Waste Management District (Region J)

2. FISCAL YEAR PERIOD:  
FROM JULY 1, 2009 TO JUNE 30, 2010

**GOALS AND ACCOMPLISHMENTS**

3 (a). What waste goals did the district have for the fiscal year period and what actions did the district take to achieve these goals?  
See Attachment A

3 (b). What waste goals does the district have for the upcoming fiscal period and what actions does the district plan to take to achieve these goals. Please include the types of grant proposals that will be sought for the upcoming period to assist in meeting these goals.

The district's waste goals for FY 11 are as follows:

- A. Projects proposing to divert household hazardous waste, electronics waste, waste oil (petroleum products), white goods and batteries will be a high priority of funding during FY 11 given there are little to no recycling facilities and/or services in the region currently for said wastes.
- B. Pursuing glass collection will also be a goal for the district in FY 11. The district will analyze the cost-effectiveness of collecting glass and will attempt to make arrangements with Ripple Glass or the City of Nevada for processing the collected glass.
- C. District planner will solicit to member cities and counties to apply for grant funds to conduct special collection events for household hazardous waste.

4 (a). What recycling goals did the district have for the fiscal year period and what actions did the district take to achieve these goals?  
1. See Attachment A

2.

RECEIVED BY  
SEP 20 2010  
SWMP OPERATIONS

4 (b). What recycling goals does the district have for the upcoming fiscal year period and what actions does the district plan to take to achieve these goals? Please include the types of grant proposals that will be sought for the upcoming period to assist in meeting these goals.  
See Attachment A

5 (a). What resource recovery goals did the district have for the fiscal year period and what actions did the district take to achieve these goals?  
See Attachment A

5 (b). What resource recovery goals does the district have for the upcoming fiscal year period and what actions does the district plan to take to achieve these goals? Please include the types of grant proposals that will be sought for the upcoming period to assist in meeting these goals.  
See Attachment A

**6. SUMMARIZE THE TYPES OF PROJECTS AND RESULTS DURING FISCAL YEAR (ATTACH ADDITIONAL SHEETS IF NEEDED.)**

Name of Project Resulting in Tonnage Diversions from Landfills	Cost of Project	Number of Tons Diverted	Average Cost Per Ton Diverted
2007-2 (KRAD)*	\$46,861.58	90.835	\$515.90
2008-3 (KBRPC - Paper)*	\$22,950.00	90.835	\$252.66
2008-5 (KRAD)*	\$9,173.73	90.835	\$100.99
2010-02 (KBRPC - Reg. Rec.) *	\$36,710.00	90.835	\$404.14
2010-03 (BCI)	\$5,758.63	498.48	\$11.55

\* The total diversion of these projects combined = 363.34 tons. Such was divided among the projects to calculate the average cost per ton diverted ( $363.34/4 = 90.835$ ).

RECEIVED BY  
SEP 20 2010  
SWMP OPERATIONS

**Measurable outcomes achieved**

See Attachment A

**7. SUMMARIZE PROJECTS NOT RESULTING IN TONNAGE DIVERSION**

Projects not resulting in tonnage diversions from landfills	Cost of Project
2009-01 (FY 09 District Operations)	\$30,000.00
2010-01 (FY 10 District Operations)	\$30,000.00
2010-05 (Ballard School)	\$2,285.00

Measurable outcomes achieved for these projects.

See Attachment A

**8. IDENTIFY SEPARATE STATISTICS FOR ITEMS BANNED FROM LANDFILLS**

List projects resulting in tonnage diversions from landfills	List cost of project resulting in tonnage diversion	Number of tons diverted from project	Average cost per ton diverted
There are none.			

**9. IDENTIFY SEPARATE STATISTICS FOR ITEMS NOT BANNED FROM LANDFILLS**

List projects resulting in tonnage diversions from landfills	List cost of project resulting in tonnage diversion	Number of tons diverted from project	Average cost per ton diverted
2007-2 (KRAD)	\$46,861.58	90.835	\$515.90
2008-3 (KBRPC)	\$22,950.00	90.835	\$252.66

RECEIVED BY

SEP 20 2010

SWMP OPERATIONS

2008-5 (KRAD)	\$9,173.73	90.835	\$100.99
2010-2 (KBRPC)	\$36,710.00	90.835	\$404.14
2010-3 (BCI)	5,758.63	498.48	\$11.55

10. Describe your district's grant proposal evaluation process.  
See Attachment A

RECEIVED BY  
SEP 20 2010  
SWMP OPERATIONS

## FY 10 Annual Report (Attachment A)

### **FY 10 Waste Goals & Actions Taken:**

The district's waste goals for FY 10 focused on diverting household hazardous waste, electronics waste, waste oil (petroleum products), white goods and batteries. The following target material list point allocations were given to applications that proposed to divert said wastes: Electronics = 11, household hazardous waste = 10, white goods/petroleum products/waste oil = 9, lead-acid/household batteries = 8. Projects that proposed to divert any two or more of the materials identified on the target material list received the maximum 12 point allocation. Glass, yard waste, school lab waste, and demolition waste was also included on the district's target material list. It was decided that proposals that diverted household hazardous waste and electronics waste would receive greater emphasis than applications proposing to divert other wastes.

Other waste goals included devising and implementing a household hazardous waste program in FY 10. Given limited funding, lack of applications and lack of service providers within proximity to the district; this goal was not realistic and was unattainable. Declining revenues for cities and counties could have contributed to the lack of interest and action in forming a household hazardous waste program. The district planner solicited to member cities and counties to apply for grant funds to conduct special collection events for household hazardous waste and electronics waste. The district did not receive any applications proposing to divert household hazardous waste.

Member cities and counties were interested in utilizing DNR's tire round-up program. Bates County and the City of Montrose were able to successfully utilize the program. Cedar and Benton County expressed interest, but was unable to secure arrangements with DNR in time to utilize the program during FY 10.

The district attained some of their waste goals during FY 10. The district approved to fund an application that proposed to provide electronic waste recycling; which will be available to the entire district. The district also received and funded an application that proposed to divert used oil and utilize such as heating. Benton County will install a used motor oil burner; which will burn oil that is waste generated by Benton County. The burner will provide heating to one of the counties' buildings and will prove to be beneficial to Benton County as a whole. Both projects will become operational in FY 11. The district attempted to fund a bio-diesel project, but to no avail. The applicant did not provide information required by SWMP in a timely fashion and considered such the applicant's decline of grant funds; project will not be funded by the district.

### **FY 10 Recycling Goals & Actions Taken:**

The district had the following recycling goals for FY 10:

1. Support projects that demonstrate cooperative partnerships within the region. The district achieved this on-going goal by approving the following projects for funding:
  - Schreiber and Henry County Industries. Schreiber was approved for a baler as a means of processing the cardboard the company generates from operations. Once baled, the cardboard will then go to Henry County Industries. Henry County Industries will sell the cardboard to a recycling broker, with both companies sharing in profits.
  - Earth Club, FAA (Osceola Schools) and Henry County Industries: Shelli McGrath with the Osceola School Earth Club was approved for collection bins (and bags) to be

## FY 10 Annual Report (Attachment A)

placed in Osceola schools as a means of collecting aluminum cans and plastic containers. The Earth Club will work with the Osceola School FFA to collect materials within the schools. Said materials will then be sent to Henry County Industries for processing and selling for recycling.

- City of Adrian, City of Nevada and Bates County Industries. The City of Adrian's project is to implement a city-wide recycling service; which will collect plastic containers, cardboard, paper, aluminum and glass. All collected materials, except glass, will go to Bates County Industries for processing and selling for recycling. The City of Nevada will accept the glass collected. The City of Adrian will not be charged by the processors and will not charge its' citizens for the service.
2. Support existing recycling services in region. The district achieved this on-going goal by approving the following projects for funding:
- Henry County Industries. Henry County Industries has been an existing recycling service in the region for the past 2-3 years. They were approved for a baler that will bale plastics and tin cans; which will enhance their current operations. Said baler will greatly increase the company's capacity for processing recyclables, which will result in more recyclables that are diverted from landfills.
  - Doug Mager (AVC Recovery). Owner of AVC Recovery, Doug Mager, has recently expanded his operations, which originated in Kansas City, to Bates County. He was provided funding assistance to meet his transportation needs. This project will provide a new service to our region, as our district has never had an electronic waste recycler. Doug will be emphasizing on servicing the schools within our region. This project will increase the capacity of Doug's business as a whole, thus resulting in more electronic waste that can be recycled.
  - City of Windsor. The combined efforts between Henry County Industries and Kaysinger Recycle & Disposal allowed the City of Windsor to begin collecting recyclables during FY 10. The City of Windsor requested assistance from the district in informing their current and new citizens of the new services available. Upon completion of Windsor's project; more citizens will know of the services available and such will result in an increase of the materials collected by the City of Windsor. The City of Windsor sends all its' collected materials to Henry County Industries for processing and selling.
  - Bates County Industries. Bates County Industries is a project that began in FY 10 and will continue into FY 11. This company was approved for various pieces of small equipment that assists in the efficiency of their recycling operations. The equipment will enable them to process faster; which will result in a greater capacity to accept more recyclables for processing and selling. Bates County Industries has been involved in recycling operations since 2001.
  - Regional Recycling Program (Kaysinger Basin Regional Planning Commission/Kaysinger Recycle & Disposal). Due to the fact that Kaysinger Basin Regional Planning Commission provides administrative services to Kaysinger Recycle & Disposal; the district considers the efforts of both entities as key players in the regional recycling program. Said program began in 1999 and has been expanding since. The program collects paper and cardboard throughout the district's region for recycling. Materials are collected at various locations; such as, schools, businesses,

## FY 10 Annual Report (Attachment A)

city-approved locations, etc. Historically, materials were processed by Bates County Industries and Henry County Industries. The profit sharing with the processors proved to be inadequate to cover program costs. KBRPC/KRAD is vigorously working to get the program to self-sustainment. Due to the fact that the profits received from materials was not enough to cover the costs, the entities decided to pursue becoming the processor for their materials; which will yield higher profits on materials.

3. Serve areas of the district that currently have little to no recycling services. The district achieved this on-going goal by approving the following projects for funding:
  - City of Adrian. Until now, the City of Adrian has only had recycling services provided by volunteers. Aside from the volunteer, collection efforts; the nearest recycling facility available to the citizens of Adrian is Bates County Industries. The accessibility of Bates County Industries (BCI) is only during their hours of operations; which means most working citizens are unable to utilize their facility given the unavailability to drop off recyclables during BCI's off hours.
  - Doug Mager (AVC Recovery): As stated earlier, there has never been an electronic waste recycling service and/or company in the district's region until now via Doug Mager/AVC Recovery.
4. Recycling education. The district achieved this on-going goal by approving the following projects for funding:
  - Earth Club (Osceola Schools). In conjunction with providing bins to collect recyclables, there will also be an educational component to this project. There will be various educational activities that will occur throughout the Osceola School District.
  - City of Windsor. The overall purpose of this project is to educate and inform the citizens of the city's recycling services. Informational/educational efforts include: publishing news releases, providing brochures to special interest groups/schools/businesses/etc and encouraging the school(s) to schedule the "In-the-Green Productions;" which is a professional recycling education presentation/assembly.
  - In-the-Green Productions. This project will educate 10 elementary and 10 junior/high schools on recycling via music/multi-media performances.
  - Ballard Schools. This project involved purchasing playground equipment that contained recycled content; in conjunction with educational components within the school as well. Educational components included in-class activities, bulletin board notifications, etc.
  - The district planner also conducted recycling education presentations to the following: Crater Critters (group in Osceola) and Hermitage High School.

### **FY 11 Recycling Goals & Actions to Be Taken:**

1. Support projects that demonstrate cooperative partnerships within the region. The district will continue to give greater emphasis to the projects that can evidence cooperative partnerships. The district intends on funding projects that show businesses, cities, etc working together as a means of diverting waste from the landfills.
2. Enhancement of existing services versus sustaining existing services. Historically, the district has had this goal as supporting existing recycling services in the region. The district fully

## FY 10 Annual Report (Attachment A)

intends on pulling away from that and moving towards only funding projects that enhance existing services as a means of ensuring district funds are not used for sustainment purposes; which in the end creates dependency on grant funds.

3. Serve areas of the district that currently have little to no recycling services. The district will continue to fund projects that propose to implement recycling services to the areas of the region that currently have little to no recycling services. The district will ensure those proposal include adequate marketing efforts as a means of ensuring the maximum amount of people become aware of the new services.
4. Recycling education. The district will continue to fund projects that promote educational activities. In conjunction with funding educational proposals, the district will enhance their efforts to informing the region that recycling presentations from the district planner are available (i.e. "Are you interested in a guest speaker" advertising article). The district would like to see the planner conduct education presentations in at least one elementary school, one middle school and one high school within the region. Given most schools are challenged to meet "No Child Left Behind" standards; it is unknown if schools will be willing to sacrifice classroom time for such.

### **FY 10 Resource Recovery Goals & Actions Taken:**

The district's FY 10 resource recovery goals included funding proposals that proposed to burn petroleum products as an alternative source of heat, but only if there will be multiple beneficiaries and there is little to no effect on carbon footprint. The district felt it would be a bad investment of grant funds for projects that proposed to burn used oil only as a means of getting free heat personally. Funding proposals that included purchasing items made of recycled tires, steel; etc (i.e. playground equipment) would be instrumental in resource recovery versus, for example, simply collecting used tires. Historically, the citizens that comprise the district's region have expected free tire collections every year. This dependency only encourages people to store used tires instead of simply paying applicable disposal fees at the time the tires are retired. A goal of the district for FY 10 was to inform and encourage its' cities and counties to utilize the free tire round-up provided by Dept. of Natural Resources as a means of getting the used tires collected. Cities and counties that utilized the tire round-up program were encouraged to inform their citizens that after the collection event, there would be no more collections; forcing citizens to remove their dependency on the tire collection events they have been so use to in years past.

### **FY 11 Resource Recovery Goals & Actions to Be Taken:**

The district will continue to focus on resource recovery via funding projects that utilize petroleum products as an alternative source of heat; given there are multiple beneficiaries. The district will also continue to fund projects that include purchasing equipment/items that contain recycled content. Proposals that include surface covers made of recycled content (i.e. community trails, parks) will also be highly considered for funding. The district will continue to encourage and assist its' cities and counties in utilizing DNR's tire round-up program.

### **Other FY 11 Goals:**

- A. Increase the number of Advisory Committee members via soliciting for committee members through local newspapers.
- B. Inform region about illegal dumping information via newspaper publications, direct solicitations to cities and counties, etc.

RECEIVED BY

SEP 20 2010

SWMP OPERATIONS

## FY 10 Annual Report (Attachment A)

### Measureable outcomes for projects resulting in tonnage diversion from landfills.

- A. 2007-02 (closed), 2008-03 (closed), 2008-05 (open) & 2010-02 (closed): Kaysinger Recycle & Disposal (KRAD) and Kaysinger Basin Regional Planning Commission (KBRPC) received grant funds to assist in the expansion of the regional recycling program; which collects recyclables within the counties of Bates, Benton, Cedar, Henry, Hickory and St. Clair. This program originally placed a compartmentalized trailer in the City of Windsor and began collecting the following recyclables: paper, plastics #1 & #2, aluminum, tin and cardboard. Materials were initially processed by Town & Country Disposal. It was soon realized that the cost to transport the trailer to Town & Country was more costly than the profits received from sale of the collected materials. For profits to cover the costs, it was decided it would be more appropriate if materials were processed by Henry County Industries. Instead of utilizing the trailer provided by KRAD, it was decided the City of Windsor would utilize collection equipment owned and provided by Henry County Industries. The trailer is currently being utilized for cardboard collection by an organization in Bolivar.

The regional recycling program drastically changed from the original business plan. It was originally planned that collection bins would be placed throughout the district's region and having the sheltered workshops and the City of Nevada serving as processors of the materials. For various reasons, this original plan was not implementable given it would not produce self-sustainability. The revised business plan for the regional recycling program is continue to collect paper via an organized route, as it is now; but to add a cardboard collection route in conjunction with such. Not only will the materials collected and how they are collected change; but who processes the materials has also changed. In an attempt to get the program self-sustaining; KRAD decided to try to become their own processor and seller of materials. Doing such would guarantee the highest profit of materials, thus further encouraging self-sustainability of the program. The truck that was purchased under grant #2007-02 was sold, given the truck was no longer needed given the amendment to KRAD's business plan. KBRPC, in conjunction with KRAD, is responsible for administering the regional recycling program per their administrative contract.

Expansion of the program did not occur as planned, but overall the regional recycling program still managed to be successful. With combined efforts between KBRPC and KRAD, they were able to divert 363.34 tons of comingled materials from the landfills. The program can't become self-sustaining unless they are approved for the equipment (budget amendments) needed to process their materials. They continue to wait for approvals from MoDNR/SWMP and Region M SWMD.

RECEIVED BY  
SEP 20 2010  
SWMP OPERATIONS

## FY 10 Annual Report (Attachment A)

- B. 2010-03 (open): Bates County Industries was provided grant funds as a means of purchasing equipment and supplies; which would increase the efficiency of their operations and will decrease their amount of time spent processing materials. In 2007, Bates County Industries was also provided grant funds; which assisted them in the acquisition of a baler to process materials. At the end of their 2007 project, BCI reported 166.8405 (12 month total) tons of cardboard, mixed paper and PET #1 & #2 was diverted from landfills as a result of that project. Their open/current project is reporting a quarterly average of 123.89 tons of cardboard, newspaper, magazines, office paper, PET #1 & #2, mixed paper, aluminum, textiles, white ledger paper and plastic film being diverted from landfills. It is obvious with these figures that BCI has successfully enhanced their operations via increased waste diversion and materials collected and processed.

### Measureable outcomes for projects not resulting in tonnage diversion from landfills.

- A. 2009-01 (closed): FY 09 District Operations resulted in the following: Funded \$12,285.00 in two C/C projects, funded \$36,710.00 in one PI project and funded \$30,000.00 for FY 10 District Operations. Conducted 2 recycling education presentations in which approximately 40 people were educated.
- B. 2010-01 (closed, final report to be approved in FY 11): FY 10 District Operations resulted in the following: Funded \$175,686.00 in 9 C/C projects; all of which will be considered open in FY 11, funded \$30,000.00 for FY 11 District Operations. Conducted 2 recycling education presentations in which 157 people were educated.
- C. 2010-05 (closed): Ballard R-2 Schools received funding to purchase playground equipment (glider) that consists of recycled material(s). The glider contained .1625 tons of recycled steel. There are 69 students in the elementary school that will benefit from the new glider. The school published an article in the News Xpress informing the community of their new playground equipment. The school also posted a bulletin in the school's Daily Bulletin; which is available on-line. In conjunction with the news releases and installation of the glider, the school district educated their elementary students via a lesson plan that utilized paper, wood and aluminum recycling as examples. The junior high students were educated on recycling through the Agriculture exploratory courses they take throughout the school year.

RECEIVED BY  
SEP 20 2010  
SWMP OPERATIONS

## FY 10 Annual Report (Attachment A)

### **Describe you district's grant proposal evaluation process:**

- A. Notices for "Grants Availability" are published in most to all of the newspapers available within the district's six counties.
- B. Applicants are given thirty days to submit proposals to the district's office. The notice is also sent to the district's member cities and counties, typically done via fax.
- C. A copy of each application received is mailed to each Advisory Committee member no less than twenty days before their next scheduled meeting.
- D. Applicants are invited to a Question-and-Answer session that is held at said Advisory Committee meeting. This gives the reviewers/rankers the chance to ask the subgrant questions as a means of ensuring clarity of the proposed project.
- E. Advisory Committee reviews and ranks the applications, then makes recommendations to the Executive Board.
- F. The Executive Board reviews all of the Advisory Committee's actions and recommendations before actions are taken at the Executive Board on received applications.
- G. It is district policy that applications must receive at least fifty points to be considered for funding approval.
- H. The Advisory Committee reviews the district's target material list, district goals and application evaluation form annually and provides recommendations to the Executive Board on such; with final approval occurring at Executive Board level.
- I. Typically the district conducts only one grant call per year.
- J. Guidance document is provided with each application. The guidance document summarizes the district's requirements and provides instructions and information on how to apply for district grants.

RECEIVED BY  
SEP 20 2010  
SWMP OPERATIONS